

ABSTRACT

A modulation apparatus which can be applied to the conventional analog PLL modulation system without using an enormous reference table, enables a phase distortion to be compensated accurately without requiring timing control with high accuracy, and can be applied to communication systems that do not perform amplitude modulation. In this apparatus, a signal generation section (101) generates a baseband phase signal. A phase distortion compensation section (102) obtains a phase distortion by multiplying a magnitude of a frequency change at predetermined time or magnitude of phase change between adjacent data of the baseband phase signal by a parameter specific to the apparatus, and thereby compensates the baseband phase signal for the phase distortion. A storage section (103) stores the parameter and calculation equation. A modulation section (105) modulates a frequency converted signal input from a frequency conversion section (104) using the baseband phase signal to generate a modulated signal.